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APPLICATION NO.	F	TILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/204,734		12/03/1998	GREGORY E. BOTTOMLEY	8194-205 5861		
20792	7590	01/13/2003				
	-	BLEY & SAJOVE	EXAMINER			
PO BOX 37 RALEIGH,	-	27		FAN, CHIEH M		
				ART UNIT	PAPER NUMBER	
				2634	<del></del>	
				DATE MAILED: 01/13/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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,	Application No.	Applicant(s)	
Advisory Action	09/204,734	BOTTOMLEY, GREGORY E	
Advisory Action	Examiner	Art Unit	
	Chieh M Fan	2634	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence address	
THE REPLY FILED 23 December 2002 FAILS TO PLAC Therefore, further action by the applicant is required to average final rejection under 37 CFR 1.113 may only be either: (1) condition for allowance; (2) a timely filed Notice of Appeal Examination (RCE) in compliance with 37 CFR 1.114.	oid abandonment of this applica a timely filed amendment which	ation. A proper reply to a	
PERIOD FOR RE	PLY [check either a) or b)]		
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire la ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f).  Extensions of time may be obtained under 37 CFR 1.136(a). The fee have been filed is the date for purposes of determining the period of fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the composition of the compo	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF The date on which the petition under 37 CFI f extension and the corresponding amon he shortened statutory period for reply the later than three months after the mail	g date of the final rejection. HE FINAL REJECTION. See MPE R 1.136(a) and the appropriate ex unt of the fee. The appropriate ex originally set in the final Office act	EP etension extension tion: or
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFR	Brief must be filed within the pe	eriod set forth in f the appeal.	
<ol><li>The proposed amendment(s) will not be entered be</li></ol>	cause:		
(a) they raise new issues that would require further	r consideration and/or search (s	see NOTE below);	
(b) they raise the issue of new matter (see Note be	elow);		
(c) they are not deemed to place the application in issues for appeal; and/or	better form for appeal by mate	rially reducing or simplifying	g the
(d)  they present additional claims without canceling NOTE:	ng a corresponding number of fi	nally rejected claims.	
3. Applicant's reply has overcome the following rejection	on(s): <u>6,28 and 34-39</u> .		
<ol> <li>Newly proposed or amended claim(s) would canceling the non-allowable claim(s).</li> </ol>	be allowable if submitted in a se	eparate, timely filed amendr	ment
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for application in condition for allowance because: See	reconsideration has been consideration Sheet.	dered but does NOT place	the
<ol> <li>The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection.</li> </ol>	ause it is not directed SOLELY to	o issues which were newly	
7. For purposes of Appeal, the proposed amendment ( explanation of how the new or amended claims wo			
The status of the claim(s) is (or will be) as follows:			
Claim(s) allowed: 6 and 34-39.			
Claim(s) objected to: 17 and 28.			
Claim(s) rejected: <u>1,5,7-9,12,15,16,18-20,23,27 and 2</u>	<u>9-31</u> .		
Claim(s) withdrawn from consideration:			
8. $\boxtimes$ The proposed drawing correction filed on 23 <i>July</i> 20	<u>202</u> is a)⊠ approved or b)⊡ o	disapproved by the Examin	er.
9. Note the attached Information Disclosure Statemen	t(s)( PTO-1449) Paper No(s)	·	
0. ☐ Other:			
. Palent and Trademark Office			

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## Response to Arguments

1. Applicant's arguments filed 12/23/02 have been fully considered but they are not persuasive.

The applicant argues that the complex weighting coefficient c1, c2 and c3 are not estimates of channel response.

Examiner's response --- The coefficients c1, c2 and c3 are the estimates of channel response because Bruckert et al. teaches that the coefficients ci are channel coefficients (see col. 12, lines 5-10, also see col. 3, lines 34-39). Furthermore, the teaching of Bruckert et al. is consistent with the instant application. According to Figs. 2 and 3 of the instant application, the received data is split into three paths (202a, 202b) and 202c in Fig. 2). Each path generates a demodulated signal (i.e., traffic despread values in Fig. 2) and a weighting coefficient (i.e., channel estimate in Fig. 2). The demodulated signal of each path is weighted by its respective weighting coefficient (see 302a, 302b, 302c in Fig. 3). The weighted demodulated signals are then added together (see 304 in Fig. 3). On the other hand, in the Bruckert et al. reference, the received data is also split into three paths (132, 134 and 136 in Fig. 1). Each path also generates a demodulated signal (176, 180, 184 in Fig. 1; i.e., x1, x2, x3) and a weighting coefficient (188, 190, 192 in Fig. 1; i.e., c1, c2, c3). The demodulated signal of each path is also weighted by its respective weighting coefficient (see 130 in Fig. 1, also see col. 6, lines 4-16). The weighted demodulated signals are then also added

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together (see 138 in Fig. 1). Therefore, it is clear that the coefficients c1, c2 and c3 exactly correspond the channel estimate of the instant application. Based on the reasons stated above, the rejection under 35 USC 102 (e) in the previous Office Action is maintained.

2. The proposed amendment filed 12/23/02 has not been entered. For purposes of Appeal, the proposed amendment will be entered. The proposed amendment will overcome the rejection under 35 USC 112, first paragraph in the previous Office Action. After the proposed amendment is entered, the status of the claims will be as follows:

Claims allowed: 6 and 34-39.

Claims objected to: 17 and 28.

Claims rejected: 1, 5, 7-9, 12, 15, 16, 18-20, 23, 27 and 29-31.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chieh M Fan whose telephone number is (703) 305-0198. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM, Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (703) 305-4714. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

Chieh M Fan Examiner
Art Unit 2634

cmf January 7, 2003

STEPHEN CHIN

SUPERVISORY PATENT EXAMINEF: TECHNOLOGY CENTER 2600